ISKANDEROVA, A.D. [translator]; MURINA, G.A. [translator]; MIRKINA, S.L. [translator]; POLEVAYA, N.I. [translator], red.; CHERHOVA, H.H. [translator]; KOLCSKOVA, M.I., red.izd-va; GODOVIKOVA, L.A., red.izd-va; AVERKIYEVA, T.A., tekhn.red.

[Radiological methods for absolute age determination; articles translated from the English and the German] Radiologicheskie metody opredelenia absolutnogo geologicheskogo vremeni; sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr. 1959. 181 p.

(Geological time)

POLEVAYA, N.I.; KAZAKOV, G.A.; MURINA, G.A.

Glauconites as indicators of the geological time. Geokhimila no.1:3-10 '60. (MIRA 13:6)

1. All-Union Scientific Research Institute of Geology, Leningrad, and V.I. Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow. (Glauconite) (Geological time)

POLEVAYA, N. I., MURINA, G.A., KAZAKOV, O.A.

Using glauconites for determining the absolute age of sedimentary rocks. Sov. geol. ) no.7:103-115 Jl '60.

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1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.

(Glauconite) (Rocks, Sedimentary) (Geological time)

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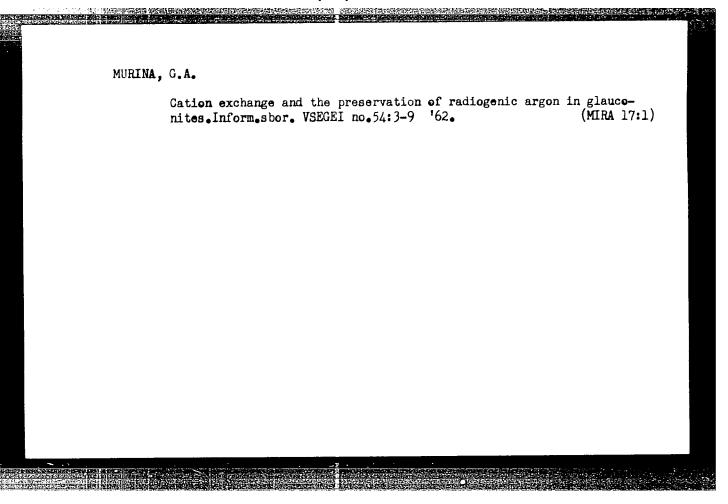
1. Predstavleno akad. D.I.Shcherbakovym.
(Glauconite) (Geology, Stratigraphic)

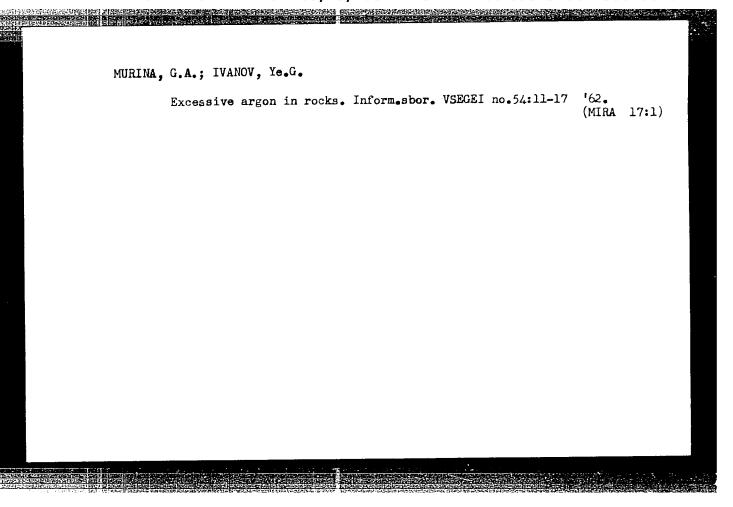
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1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut,
Leningrad.

(Argon)
(Glauconite)





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KHOREVA, B.Ya.; MURINA, G.A.

Preliminary data on the absolute age of graniteids and metamorphic rocks in the Irtysh shear zone of the Altai. Inform.sbor. VSEGEI no. 54:69-81 '62. (MIRA 17:1)

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CHEN' YUY-VEY [Ch'ên Yü-wei]; TITOV, N.Ye.; PANTELEYEV, A.I.;

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Problems of the methods of geological investigations. [Trudy]

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SOLOVITEVA, V. N., KARDASHOV, D. A.; MASHINA, M. A.; MURINA, I. S.

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Nature of spiderlike pitting corrosion cracks of steel, and ways for their elimination. Stal' 25 no.10:941-944 0 '65.

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1. Institut "UkrNIISpetsstal'" i zavod "Dneprospetsstal'".

MAL'TSEV, M.V., kand.tekhn.nauk; MURINA, N.V., inzhener; ROGEL'BERG, L.W.,inzh.

Modification of the structure of aluminum bronze. TSvet.met. 27
no.2:60-66 Mr-Ap '54.

(MIRA 10:10)

1. Mintsvetmetzoloto.

(Aluminum bronze)

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	Card 1/30	: 
	Aleksanyan, V.T., Kh. Ye. Sterin, M. Yu. Lukina, et al. Raman Spectra of Certain Gyolopropane Hydrocarbons and the Double-bond Con twester.	
1	and the Double-bond Conjugation of a Three-membered	_
	Aleksanvan, V.T., Eh. Ye. Sterin, M. Yu. Lukira, and LeA. Rakhapetyan. Raman Spectra of Certain Moncelkyl Cyclobutanes and of Cyclobutylbromide	64
	Elochkov, V.P. Effect of the Solvent on Absorption and Fluorescence Spectra	68
	Barchukov, A.I., T.E. Murina, and A.M. Prokhorov. Microwave Spectrum of Tae C <sub>2</sub> H <sub>c</sub> Cl Molecule	71 75
	of the Muclear Quadrupole Resonance	75
	Borodin, P.N., F.I. Skripov. Chemical Displacement and the Fine Structure of the Nuclear Magnetic Resonance of Fluorine in a Series of Compounds	
	* • • •	78

MURINA, T.M.

AUTHOR: Murina, T.M.

109-10-6/19

TITLE:

Radio Spectroscope for the Investigation of the Spin Spectra of Molecules (Radiospektroskop dlya issledovaniya

Spectra of morecures (nautospectroscop drya issiedov

vrashchatel'nykh spektrov molekul)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, No.10, pp. 1271 - 1278 (USSR).

ABSTRACT: The equipment described consists of a stabilised klystron, an absorption cell, a receiving or detecting head, a 75 kc/s amplifier, a synchronous detector, a recording device, a Stark modulator and a klystron frequency stabiliser (see Fig.1). Stabilisation of the klystron frequency is done by means of a circuit consisting of a cavity resonator, a low-frequency amplifier, an auxiliary klystron, the stabilised klystron, a crystal mixer, the absorption cell, a diodephantastron circuit, a coincidence circuit and an intermediate frequency amplifier (see Fig.2). The reference frequency for the stabilisation of the operating klystron is rovided by accavity resonator whose frequency can be adjusted over a certain range. This permits the klystron to be tuned over a comparatively small range of frequencies (40-60 Mc/s), but if a number of different klystrons are employed, it is possible Card 1/3

109-10-6/19

Radio Spectroscope for the Investigation of the Spin Spectra of Molecules.

to cover the frequency range of 10 000 to 43 000 Mc/s. Operation of the stabilising system, in particular that of the diodephantastron circuit (see Fig. 3), is analysed in some detail and it is shown that its stabilisation coefficient is greater than The equipment was used to measure the spectrum of a C2H5C1 molecule, the method employed being as follows: the frequency of a crystal-stabilised oscillator operating at 10 Mc/s is multiplied up to 540 Mc/s by means of electron tubes and then up to the klystron frequency by means of rectifier diodes. The resulting frequency and the klystron frequency are mixed by means of a crystal detector and theresulting difference frequency is applied to a receiver and to an oscillograph. The signal at the output of the receiver (as seen on the oscillograph) is in the form of a pulse whenever the difference frequency corresponds to the intermediate frequency of the receiver. By tuning the receiver, the absorption line of the investigated substance can be made to coincide with the pulse of the receiver. The measurements of the spectra are not entirely unambiguous and it is therefore necessary to employ some sort of modulation for the absorption lines. It appears Card2/3 that one of the most convenient methods of modulation is that

Card 3/3

SOV/109-3-11-10/13

AUTHORS: Murina, T.M., Prokhorov, A.M. and Chayanova, E.A.

TTTIE: Measurement of the Absolute Intensity of the Absorption Lines (Izzereniye absolyutnykh intensivnostey liniy

pogloshcheniya) (Letter to the Editor)

PERIODICAL: Radiotekhnika i Blektronika, 1958, Vol 3, Nr 11,

pp 1402 - 1404 (USSR)

ABSTRACT: It is shown that the measurement of the absolute

intensity of the absorption lines can be done by means of a ferrite modulator such as shown in Figure 1. This consists of (1, 2) sections of a rectangular waveguide,

6)a circular waveguide, (4)a magnetising solenoid, (5) sample of ferrite and (6) a dielectric holder. modulator is based on the Faraday effect and permits the modulation of transmitted power at the frequency of the Stark modulation. For the measurements, the

modulator is placed between a klystron and an absorbing cell, the modulation frequency being 75 kc/s. It is

shown that, if the detector (at the output of the waveguide (2) in Figure 1) has a square characteristic, the ratio of the low-frequency component of the output

voltage to the direct-current component is equal to twice Cardl/2 the modulation index. A curve of the voltage ratio as

SOV/109-3-11-10/13 Measurement of the Absolute Intensity of the Absorption Lines

> a function of the detector current is shown in Figure 2. From this, it is seen that the detector has a square characteristic from 0 to 0.4 mA. The method was used to determine the absolute intensity of the ammonia absorption lines. It was found that the error was of the order of 3.5%. There are 2 figures and 2 Soviet references.

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva AN SSSR

(Institute of Physics imeni P.N. Lebedev of

the Ac.Sc.USSR)

SUBMITTED:

February 22, 1958

Card 2/2

Sov/51-4-4-14/24

THE RESERVE OF THE PROPERTY OF

Barchukov, A.I., Murina, T.M. and Prokhorov, A.M. AUTHORS:

Microwave Spectrum and Rotational Constants of the CoH5Cl TITLE:

Molecule (Mikrovolnovyy spektr i vrashchatel'nyye postoya-

nnye molekuly C2H5Cl)

Optika i Spektroskopiya, 1958, Vol IV, Nr 4, PERIODICAL: pp 521 - 523 (USSR).

Microwave rotational spectrum of ethyl chloride ABSTRACT: (C2H5Cl) was first described in 1954 (Referencel). An approximate value of the rotational constant A for the  $C_2H_5Cl^{35}$ were given molecule and the value of the dipole moment  $\mu_a$ in Ref 2. The present paper reports a more precise determination of A from transitions related to changes of the dipole moment  $\mu_h$  . For this purpose, the transitions

 $0_{00} \rightarrow 1_{11}(v = A + C)$  and  $1_{01} \rightarrow 1_{10}(v = A - C)$  were found to be most convenient. The first of these transitions lies in the region of 36 000 Mc/s and the second in the 26 000 Mc/s region. The ethyl chloride spectrum was found to be very rich Cardl/3 in lines in the range from 25 000 to 42 000 Mc/s. The lines of

为100mm,100mm 100mm, 100mm 100mm, 100mm 100mm, 100mm

Sov/51-4-4-14/24 Microwave Spectrum and Rotational Constants of the  $C_2H_5Cl$  Molecule

the Q-branch from I = 1 to I = 9 lie in this range. The Q-branch was identified graphically by a method described in the present note. The value of A for the  $C_2H_5Cl^{2/5}$  molecule obtained from the transition  $l_{01} \rightarrow l_{10}$  is 31 337.6  $\pm$  0.5 Ke/s and the value of A obtained from the  $l_{00} \rightarrow l_{11}$  transition is 31 336.4 Mc/s. Since the hyperfine structure of the  $l_{00} \rightarrow l_{11}$  transition was not fully resolved, the value of A obtained from the  $l_{01} \rightarrow l_{10}$  transition is the more retiable. From the transitions considered here the value of the rotational constant C was found to be 4 961.6 Mc/s, which agrees with the value reported in Ref !. The rotational constant A for the  $l_{01} \rightarrow l_{10}$  transition  $l_{01} \rightarrow l_{10}$  transition lines for various values of the  $l_{01} \rightarrow l_{10}$  transition lines for various values of F. Table 2 gives the calculated (second column) and experimental (third column) values of rotational constants A, B and C for the  $l_{01} \rightarrow l_{10}$  and Card2/3

Sov/51-4-4-14/24 Microwave Spectrum and Ro.tational Constants of the  $\rm C_2H_5Cl$  Molecule

 $c_2 \rm H_5 cl^{37}$  molecules. Table 2 shows good agreement between the experimental and calculated values. The value of the dipole moment  $\mu_a$  was found from the Stark splitting of the  $c_{00} \rightarrow c_{01}$  transition. This value is given as 1.745 D  $\pm$  1.2% . There are 1 figure, 2 tables and 3 references, 1 of which is Soviet and 2 are in English.

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva AN SSSR

(Physics Institute imeni P.N. Lebedev, Ac.Sc. USSR)

SUBMITTED: April 4, 1957

Card 3/3 l. Ethyl chlorides--Spectrographic analysis

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135620020-1 5.5000 (also 1144) AUTHOR: 28533 S/109/61/106/009/016/018 Murina, T.M. TITLE: A radiospectroscope with a disc resonator PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 9, 1961, In the present article the author describes a superheterodyne resonating radiospectroscope, utilizing the Stark effect modulation. The reflector type resonator has a ferrite circulator for dulation. The refector type reconstor has a retrite circulator for the casy tuning. The resonator is made of ground, but no polished, larger volume compared with an ordinary cavity. It saturates at brass and has a Q of 2000-3000. Since a disc resonator has a much larger volume compared with an ordinary cavity, it saturates at ty). Since with the decreasing power level (owing a waveguide cavithe sensitivity of a video spectroscope decreases. heterodyning is ty). Since with the decreasing power level (owing to saturation) the sensitivity of a video spectroscope decreases, heterodyning is the sensitivity of a video spectroscope decreases, neterodyning is a policy. In the arrangement designed by the author, the local ose of the stand with respect to the stand blustom. applied. In the arrangement designed by the author, the local oscillator is a klystron, detuned with respect to the signal klystron Card 1/3 4

A radiospectroscope with a ...

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by 27 Mc/s. The local oscillator is a phase stabilized with respect to the signal oscillator. The frequency of the signal klystron changes for several megacycles from a 50 c/s saw tooth voltage. The 75 Kc/s ltage from the stark effect modulator is being applied to the discs, one of which is earthed. Frequencies of absorption lines were determined by means of markers derived from a crystal controlled marker generator and from the klystron output, displayed on double beam CRO. The device was checked at 15,000 Mc/s and used to measure the dipole moment of a molecule of formaldehyde (CH20). The use of a disc resonator is said to permit very accurate measurements of spacing between the discs and consequently accurate determination of the electric field intensity. It also obviates calibration against a known depole moment. While in waveguide cavities o, Stark effect components are observed which correspond to parallel fields in a disc cavity π, components are served which correspond to perpendicular fields. The formaldehyde dipole moment was determined from measuring the frequency difference between the Stark effect lines and a non-shifted line in the  $2_{11} \longrightarrow 2_{12}$  transi-

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tion. The observed structure was in full agreement with theory. The obtained value of the dipole moment was  $\mu_0$  = 0.34 debye . The

accuracy of measurements was less than 1 % owing to technical reasons. The obtained value for the dipole moment is the same as obtained in (Ref. 3: J. Phys. Soc. Japan, 1960, 15, 2). There are 1 figure and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: Quantum Electronics, N.Y., 1960; J. Phys. Soc. Japan, 1960, 15, 2.

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva AN SSSR (Institute of Physics im. P.N. Lebedev, AS USSR)

SUBMITTED: February 13, 1961

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Card 3/3

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ACCESSION NR: AP3005845

8/0051/63/015/002/0221/0225

Author: Murina, T.M.; Prokhorov, A.M.

57

TITLE: Investigation of the methyl chloride molecule by means of a beam spectroscope with a disk resonator.

SOURCE; Optika i spektroskopiya, v.15, no.2, 1963, 221-225

TOPIC TAGS; microwave spectrum; rotational transition; hyperfine structure, beam spectroscopy, methyl chloride

ABSTRACT: The present study of CH3Cl was one of the proposed series of investigations of the hyperfine structure of molecules by means of a molecular beam (microwave) spectroscope with a disk resonator with Stark modulation (T.M. Murina, Radiotekhnika i elektronika, 6, 1586, 1961). Specifically, the authors investigated the magnetic hyperfine structure of the CH3Cl molecule associated with the rotational J=0—J=1 transitions. As a result of quadrupole splitting of the rotational levels there should be observed three transitions, but in the present experiments only two were observed:  $F_1=3/2 \rightarrow F_1+1=5/2$  (frequency 26598.59 Mc) and  $F_1=3/2 \rightarrow F_1-1=1/2$  (frequency 26604.57 Mc). The calculated and experimental

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coupling constant) A fo	F the hydron	em muclet (A	magnetic at	ructure con	istant (1	[ <b>J</b> .	1
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EWA(k)/FBD/EWG(r)/EWT(1)/EWT(m)/EEC(k)-2/EEC(2)/T/EWP(t)/EWP(k)/ L. 44786-65 SSC(b)-2/EWP(b)/EWA(m)-2/EWA(h) Pn-4/Pn-4/P0-4/Pf-4/P1-4/P1-4/Peb SCTB/ IJP(a) WG/JD/JG ACCESSION NR: AP5010827 UR/0020/65/161/004/0805/0809 AUTHOR: Kostin, V. V.; Murina, T. M.; A. M. Prokhorov (Corresponding member AN SSSR); Udovenchik, V. T. TITLE: Calcium fluoride laser doped with doubly ionized dysprosium SOURCE: AN SSSR. Doklady, v. 161, no. 4, 1965, 806-809 TOPIC TAGS: fluorite laser, luminescence spectrum, absorption spectrum laser, calcium fluoride laser, laser oscillation ABSTRACT: Fluorite crystals, 70-80 mm long and 7-10 mm in diameter with different concentrations of Dy3+ (0.05, 0.1, 0.2, 0.3, and 0.5%), were prepared in the single-crystal laboratory of the Physics Institute AN SSSR. Gammairradiation at about 108 r converted the trivalent dysprosium into divalent. The luminescence and absorption spectra of the resultant crystals were first measured. The absorption spectrum was found to consist of a strong absorption band from 2300 to 4900 Å, and three weaker and narrower bands, with maxima at 5800, 7150, and 9100 Å. Pumping at any of these three frequencies leads to strong lumines. cense in the 2.3 -2.6 µ range. The most intense luminescence occurred at 2.36 µ. **Card** 1/2

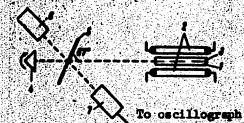
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o be about 25 J. The dura aser operation in the cont emperature. The continuous erot interferometer, the s he interferometer plates.	tion of luminescence was inuous mode was made at a generation line width spectrum being scanned by The results show that to over lines are expected	ilsed conditions and was found approximately 18-26 msec. the supercooled liquid nitrogen was measured with a Fabry-y varying the pressure inside the generation line width does at the temperatures of liquid	
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AUTHO	R: Konyukhov, V. K.; Kulevskiy, V. A.; Kostin, V. V.; Muring, T. M.; Prokhorov,
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ORG:	Physics Institute im. P. N. Lebedev Academy of Sciences, SSSR (Fizicheskiy
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ABSTR	TAGS: giant pulse laser, dysprosium, calcium fluoride, menon lamp, pumping.
DUMBE	d continuously by renon lamps. Such pulses were first achieved in CaF,:Dyf
by Ye	. M. Zolotov, A. M. Prokhorov, and G. P. Shipulo (ZhETF, v. 49, no. 9, 720,
TAIG	, who used <u>ruby laser pumping</u> . A similar method of generating giant pulses in mid was used by J. E. Gausic, M. L. Hensel, and R. G. Smith (Appl. Phys. Lett.,
6, no	. 9. 175, 1965). The laser system used in the present investigation (Fig. 1)
consi	sted of a cylindrical dysprosium-doped calcium fluoride crystal 70 mm long and
	in diameter with plane-parallel ends. The concentration of Dy2+ in CaF, was
PTO.	cm <sup>-3</sup> . The crystal was placed in a dewar, where it was cooled by circulating d nitrogen. The pumping was provided by two cw xenon lamps placed together with
a dev	ar in a tight condenser. An internal multilayer dielectric mirror with a re-
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flectivity of approximately 100% was used on one end of the resonator, whose output was Q-switched by means of a rotating (50-500 cps) prism with total internal reflection. The laser beam was incident (at 23°) at a plane-parallel quartz plate and directed at a calorimeter and a liquid-nitrogen-cooled InSb photodiode with a time-resolution of 20:10-9 sec. The time-dependent emission intensity was recorded by



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Fig. 1. Schematic of the laser system

1 - CaF<sub>2</sub>:Dy<sup>2+</sup> crystal; 2 - continuous pumping nenon lamps; 3 - multilayer dielectric mirror; 4 - rotating prism with total internal reflection; 5 - plane-parallel quartz plate; 6 - calorimeter; 7 - InSb photodiode.

means of an InSb photodiode and DEO-1 and S1-11 oscillographs. The mean intensity in both directions (see Fig. 1) was 0.05 w for both fixed and rotating (at 200 cps) prisms. This indicates that the rotation frequency of the prism was near optimal. The duration and repetition rate of the giant pulses were 1.2 x  $10^{-7}$  sec (calculated value was 1.05 x  $10^{-7}$ ) and 200 cps, respectively, resulting in a peak power of 2 x  $10^{3}$  w. The proposed high-intensity laser can be used in studies of two-photon excitation of semiconductors with a narrow forbidden gap. Orig. art. has: 2 figures.

[YK] SUB CODE: 20 / SUBM DATE: 028ep65/ ORIG REF: 003/ OTH REF: 005/ ATD PRESS:

04564-67 EWT(1)/EWT(m)/EWP(t)/ETI SOURCE CODE: UR/0056/66/051/003/0773/0776 ACC NR: AP6032472 AUTHOR: Dzhibladze, M. I.; Zvereva, G. A.; Kostin, V. V.; Murina, T. M.; Prokhorov, ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy institut Akademii nauk SSSR) TITIE: Investigation of the luminescence line width and of the temperature shift of the continuous generation frequency of Dy2+ in CaF2 1 SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 51, no. 3, 1966, 773-TOPIC TAGS: laser spectroscopy, solid state laser, paramagnetic cw laser, fluorite, dysprosium 7 ABSTRACT: In view of the possible use of CaF2 crystals activated with divalent dysprosium as laser rods at 2.36 μ wavelength, the authors have calculated the probabilities of the nonradiative transitions of the Dy2+ ion in CaF2 which cause the homogeneous broadening of the luminescence lines, and also investigated the temperature dependence of the frequency shift of a Dy2+: CaF2 cw laser in the vicinity of 78K. It is shown that the broadening of the luminescence line (the transition  $7T_1^{(2)} \rightarrow 8T_2^{(2)}$ ) is determined essentially by the lifetime of the lower level  $8T_2^{(2)}$ , since the probability of the nonradiative transition from this level is of the order of  $10^{10} \, \text{sec}^{-1}$  The nonradiative transitions from the lower level,  $8T_2^{(2)} \rightarrow 8E^{(2)}$  and  $8T_2^{(2)} \rightarrow 8T_1^{(1)}$ , 1/2 Card

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.61 x 10 <sup>9</sup> he shift of shift of salculated	and 7.1 of the company of the compan	y frequency; bed earlier ± 0.0025 cm he change in	, measured b (DAN SSSR v per degree the crystal	by perturbatively at 0°K. by means of the se, which is 1 field with the point-characters.  Orig. ar	a Fabry- 1965), approxi	Perot is for imatel; og tem	interund to y doub peratu	ferom corr le th re.	eter witespond to the color of the distribution of the distribution of the color of	to
SUB CODE:	_	SUEM DATE:	05 <b>Apr</b> 66/	ORIG REF:	004/	OTH	r <b>ef</b> :	004/	ATD PRE	SS:
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(MIRA 18:1)
1. Institut biologii yuzhmykh morey AN UkrSSR.

HERILD, U	1
BONETS	KAYA, A.K.; MURINA, V.V.
	Adsorption and heat of adsorption from solutions of barium sulfate. Vest.Mosk.un. Ser.mat.,mekh.,astron.,fis.,khim.ll no.1:165-168 '56.
	1. Kafedra obshchey fiziki dlya khimicheskogo fakul'teta Moskovskogo universiteta.
	(Adsorption) (Barium sulfate) (Heat of adsorption)
sowenie komunica na mana	

MURINA, V.V.

USSR/ Physical Chemistry - Surface phenomena. Adsorption. Chromatography.

B-13

Ion exchange

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11393

Author : Aleksandrova G.I., Kiseley V.F., Krasil'nikov K.G., Murina V.V.

Sysoyev Ye.A.

Inst : Academy of Sciences USSR

Title : Heat of Wetting of Silicagel of Different Degrees of Hydration by

Some Organic Liquids

Orig Pub : Dokl. AN SSSR, 1956, 108, No 2, 283-286

Abstract : Determined were the heat values of wetting of surface unit of debydrated

at 300-900°, of specimens of silicagel (SG) of different porosity by absolute methanol (Q<sub>1</sub>), n-propanol (Q<sub>2</sub>) and non-polar n-heptane (Q<sub>3</sub>) Q<sub>3</sub> does not depend on the nature of porosity of SG; Q<sub>2</sub> and Q<sub>3</sub> are higher in the case of coarsely porous SG, than for finely porous, which is attributed to the effect of pores which increases on transition to larger molecules of C<sub>3</sub>H<sub>7</sub>OH and C<sub>7</sub>H<sub>14</sub>. Q<sub>1</sub> and Q<sub>2</sub> increase linearly with degree of hy-

dration ( $\theta_{H_20}$ ) of SG surface, which confirms ( see reference ) the assum

1/2

USSR/ Physical Chemistry - Surface phenomena. Adsorption, Chromatography. B-13

Ion exchange

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11393

ption of heterogeneity of SG surface. Q3 is almost not dependent on H20. The conclusion is arrived at that most of the earlier data on heat of wetting of SG are not mutually comparable since no account was taken of the correlation between Q and H20 and the nature of porosity of SG (see RZhKhim, 1956, 77773)

2/2

5(4)

AUTHORS:

Yegorov, M. M., Kiselev, V. F., Krasil'nikov, K. G., Murina, V. K.

TITLE:

The Effect of the Surface Nature of Silica Gel and Quartz on Their Adsorption Properties (Vliyaniye prirody poverkhnosti silikagelya i kvartsa na ikh adsorbtsionnyye svoystva) III. Heats of Wetting of Silicon Dioxide With Various Liquids (III. Teploty smachivaniya kremnezema razlichnymi zhidkostyami)

PERIODICAL:

Zhurnal fizicheskoy khimit, 1959, Vol 33, Nr 1, pp 65-73 (USSR)

ABSTRACT:

In connection with previous papers the effect of the hydration of the surface of silicon dioxide on the adsorption energy of water and methanol in the form of heat of wetting (HW) is investigated. HW was determined in several SiO<sub>2</sub> samples with

water, methanol, n-propanol, and n-heptane in dependence on the hydration degree of the surface. Data on the HW of the silica gels KSK with water were taken from M. M. Yegorov's thesis (Ref 18). The HW was measured by means of a calorimeter with a temperature sensitivity of 5.10<sup>-50</sup>C. A table of the investigated silica gels with the HW obtained for water is given. An investigation of the effect of the glowing temperature on the HW

Card 1/3

SOV/76-33-1-11/45

The Effect of the Surface Nature of Silica Gel and Quartz on Their Adsorption Properties. III. Heats of Wetting of Silicon Dioxide With Various Liquids

(Fig 1) showed that a glowing temperature of 200-300°C the function curves pass through a maximum. An increase in the glowing temperature up to 1000°C resulted in a surface decrease, e. g. in silica gel K-2, of several m<sup>2</sup>/g. A treatment at 300°C is considered the standard. Here, the dependence of the HW on the hydration of the surface is expressed by a straight line. A wetting of thermally dehydrated samples with water results in the formation of hydration heat. A hydrated quartz surface differs qualitatively from a corresponding silica gel surface which can be explained by the closer packing of the hydroxyl groups (in quartz); however, investigations have still to be carried out in this respect (e. g. according to the method of the core-paramagnetic resonance). The HW of methanol does not depend on the porosity of the silica gels, which is the case with n-propanol and n-heptane. In the case of partly dehydrated surfaces a greater HW is 35tained by the use of methanol than by that of water which car. be explained by the effect of the methyl group in the adsorption. The results of the investigations show that the HW

Card 2/3

sov/76-33-1-11/45

25-2655216521616302.6514763424518422827**379283**461**3**81

The Effect of the Surface Nature of Silica Gel and Quartz on Their Adsorption Properties. III. Heats of Wetting of Silicon Dioxide With Various Liquids

of the silica gel with water and methanol depends essentially on the hydration degree of the surface which is not the case with n-heptane. The authors thank B. V. Il'in and G. I. Aleksandrova. There are 3 figures, 1 table, and 22 references,

14 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lemonosova

(Moscow State University imeni M. V. Lomonoscy)

Card 3/3

(MIRA 14:12)

GANICHENKO, L.G.; KISELEV, V.F.; MURINA, V.V.

Adsorption properties of the crystalline titanium dioxide surface.

Kin.i kat. 2 no.6:877-886 N-D '61.

1. Mcskovskiy gosudarstvennyy universitet, fizicheskiy fekul'tet. (Titanium oxide)

(Adsorption)

GANICHENKO, L.G.; KISELEV, V.F.; KRASIL'NIKOV, K.G.; MURINA, V.V.

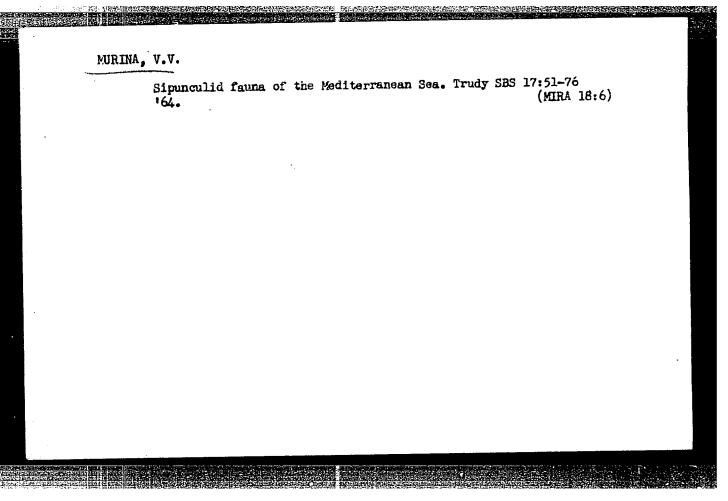
Iffect of the nature of silica gel and quartz surfaces on their adsorption properties. Part 4: Adsorption and heat of adsorption of aliphatic alcohols on powdered silica gel.

Zhur.fis.khim. 35 no.8:1718-1726 Ag '61. (MIRA 14:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.

Lomonosova. (Alcohols) (Adsorption)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135620020-1"



MURINA, V.V.

Some data on the structure of Felagosphaera larvae (Sipunculidea).
Zool.zhur. 44 no.11:1610-1619 '65.

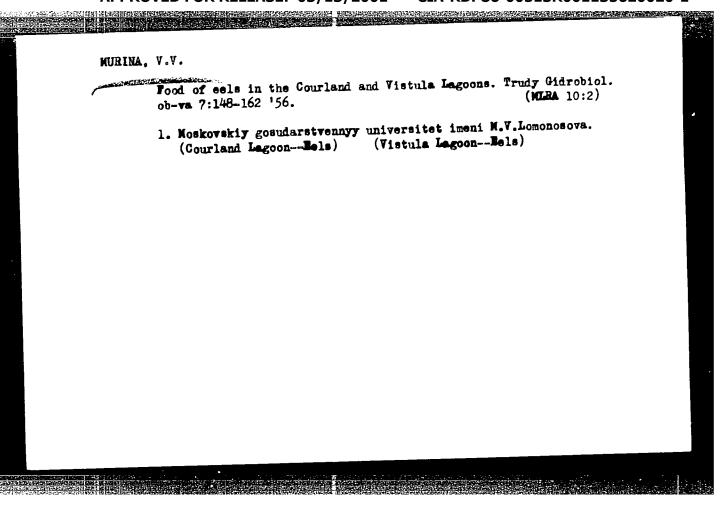
(MIRA 18:12)

1. Institut biologii yuzhnykh morey AN UkrSSR, Sevastopol'.

USSR/Biology - Ichthyology
Gard 1/1 : Pub. 86 - 31/36
Authors : Marina, V. V.
Title : Luminescence in the North sea

Periodical : Priroda 43/12, page 116, Dec 1954
Abstract : Unusual luminescence noted in the sea near the Oriney islands is investigated and found to be caused by a species of marine life called Metridia lucens.

Institution:
Submitted : .....



MURIMA, V.V.; PERMITIN, Yu.Ye.

Living marine turtle in Moscow. Prirods 45 no.5:115 My '56.
(MLRA 9:8)

1. Eafedra soologii besposvonochnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonesova
(Moscow-Loggerhead turtle)

#### KURINA, V.V.

Sipunculidae collected by the ship "Ob'" during the first voyage of the Joint Antarctic Expedition in 1956 [with summary in English]. Zool. shur. 36 no.7:992-998 J1 '57. (MLRA 10;9)

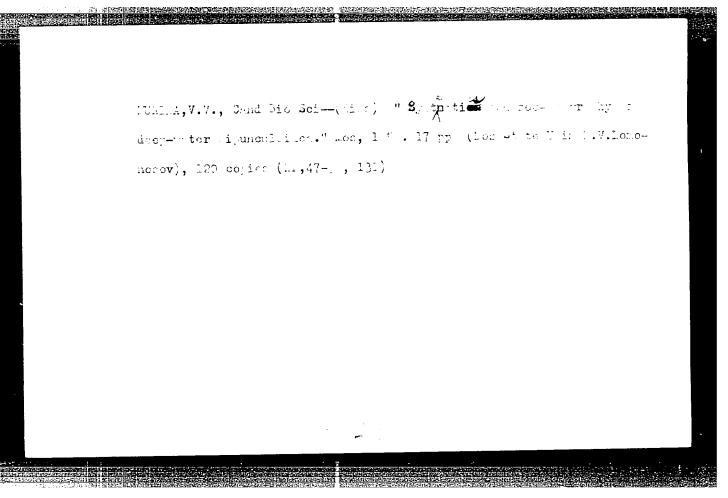
l. Kafedra soologii besposvonochnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lemonosova.

(Antarctic regions--Sipunculidae)

MURINA, V.V.

Abyssal sipunculids of the genus Phascolion Theel from the northern part of the Facific Ocean collected by the expeditionary ship "Vitias'" during 1950-1955 [with summary in English]. Zool.zhur. 36 no.12: 1777-1791 D '57. (MIRA 11:1)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta. (Pacific Ocean—Gephyrea)



MURINA. V.V.

Systematics of two allied species of deep-sea sipunculids of the genus Golfingia according to the materials collected by the ship "Vitias" during the expedition of 1949-1955 [with summary in English]. Zool. zhur. 37 no.11:1624-1634 N '58. (MIRA 11:12)

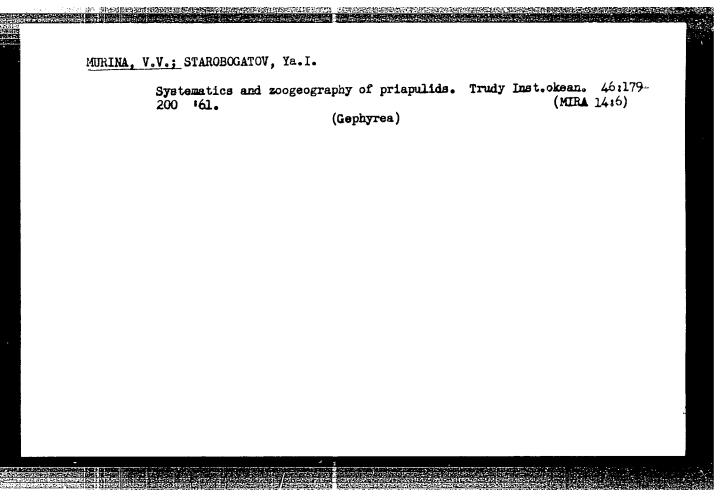
 ${\tt l.Biologo-pochvennyy} \ {\tt fakul'tet} \ {\tt Moskovskogo} \ {\tt gosudars} \ {\tt tvennogo} \\ {\tt universiteta.}$ 

(Pacific Ocean--Gephyrea)

MURINA, V.V.; REZNICHENKO, O.G.

Autoacclimatigation of the crab Rhithropanopeus harrisii tridentatus (Maitland) in the Vistula Lagoon. Trudy Gidrobiol. ob-va 10:235-264 '60. (MIRA 13:9)

l. Moskovskiy gosudarstvennyy universitet, kafedra zoologii bespozvonochnykh i kafedra gidrobiologii. (Vistula Lagoon---Crabs)



# MURINA, V.V. New and rare species of deep-sea sipunculids of the genus Golfingia. Trudy Inst. okean. 69:216-253 164.

Fauna of sipunculids of the littoral of the South China Sea. Ibid.: 254-270 (MIRA 17:9)

MURINA, V.V.

On the Red Sea coast; at the Hurghada Institute of Oceanography (the United Arab Republic). Priroda 54 no.8:83-87 Ag '65.

(MIRA 18:8)

1. Institut biologii yuzhnykh morey AN UkrSSR, Sevastopol'.

LYSOV, A.S., inzh.; MURINETS, S.V., inzh.; YERSHOV, A.G., inzh.

Comparing various automatic control systems of conveyer charging of the sinter into blast furnaces. Stal' 23 no.12:1073-1077 D '63.

(MIRA 17:2)

1. Magnitogorskiy metallurgicheskiy kombinat.

ACCESSION NR: AP4029127

\$/0133/64/000/004/0342/0343

AUTHOR: Murinov, D. M. (Deceased); Grepenshchikova, A. Z.; Lyadova, A. A.

TITLE: Search for a new lubricant for the cold rolling of stainless steel pipes

SOURCE: Stal x 3 No. 4, 1964, 342-343

TOPIC TAGS: lubricant, cold rolling, stainless steel, pipe production, OP-10

ABSTRACT: The authors propose the use of a new, more economical lubricant in the production of cold rolled stainless steel pipes. This cheaper lubricant is composed of: 15% chloride salts, 25% talc, 15% polyethylene-monoalkylphenyl ethers OP-10 and 25% naphthenate soap. The introduction and use of the new lubricant should have a great economic effect. Five lubricants with different ratios of the above ingredients were tested. Two of the lubricants cost 227 and 82 rubles per ton, respectively, whereas the presently used lubricant, containing 40% to 50% castor oil or cotton seed oil, 35% to 40% talc and 15% to 20% chloride salts of sodium or ammonium, costs 997 rubles per ton. The change to this new lubricant will not only be an economic saving, but it will also increase the surface quality of the pipes.

ASSOCIATION: Pervoural'skiy novotrubny\*y zavod (Pervouralsk Pipe Plant)

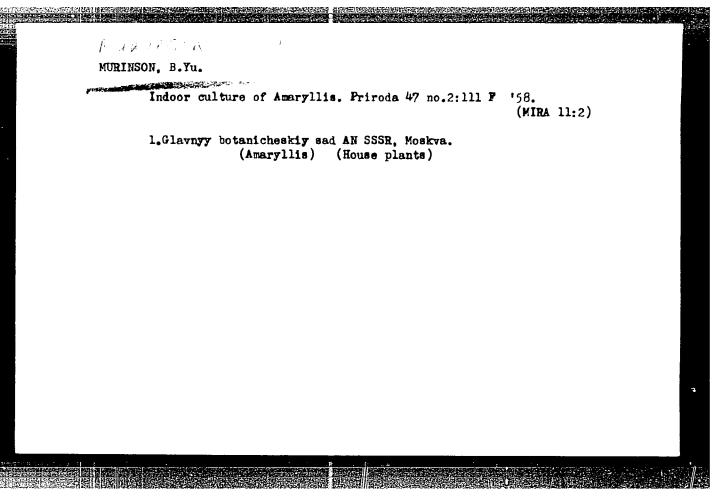
COIG

MURINOVA, V.G.

Nonoxidizing, low-exidizing, and rapid heating of metals.
Met. i gornorud. prom. no.1:77 Ja-F 165. (MIPA 19:3)

- 1. MURINSON, B. Yu.
- 2. USSR (600)
- 4. Lemon
- 7. Rooting lemon trees by air layering. Blul.Glav.bot sada no. 12, 1952
  V. A. Shishkin, V

Monthly Lists of Russian Accessions, Library of Congress, March, 1953, Unclassified.



MURLINSON, B.Tu.

Rooting lemon by means of cuttings. Biul.@lav.bot.sada no.16:89-91
'53. (MIRA 7:4)

1. @lavnyy botanicheskiy sad Akademii nauk SSSR.
(Lemon) (Plant propagation)

USSR/ Biology - Botany

Cart 1/1

Pub. 86 - 19/35

Authors

: Murinson, B. Yu.

Title

# Growing laurel indoors

Periodical

Priroda 44/2, 100 - 101, Feb 1955

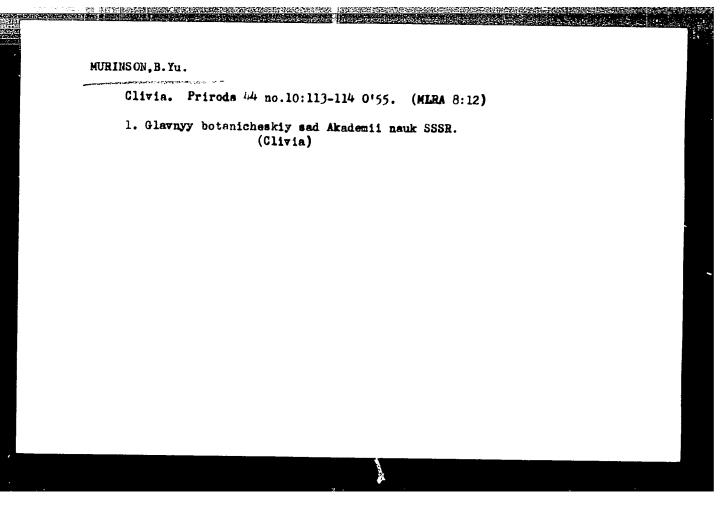
Abstract

The laurel tree is described and information is given as to its use for food and in industry. The botanical characteristics are explained along with directions for indoor cultivation and protection against parasites.

Institution

: Chief Botanical Garden of the Acad. of Sc. of the USSR

Submitted

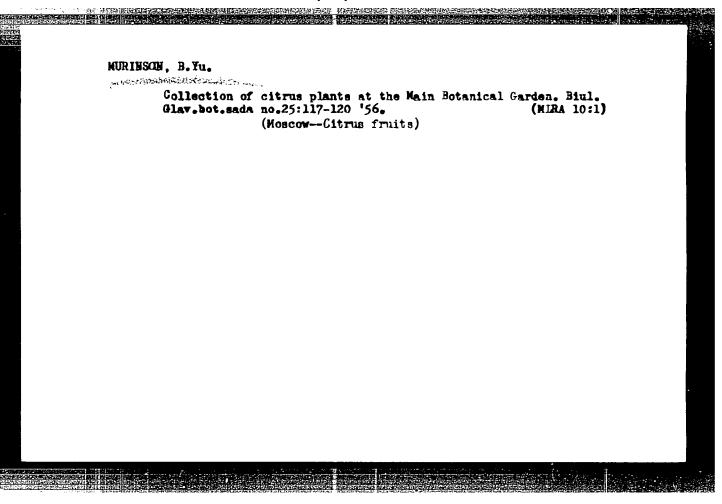


DUBROVITSKAYA, N.I.; KRENKE, A.N.; MURINSON, B.Yu.

Raising lemons indoors. Biul. Glav. bot. sada no.24:19-30
"56. (MLRA 9:11)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR.

(Lemon) (Window-gardening)



MURINSCH, B. Tu.

Abutilon. Priroda 45 no.10:113-114 0 156. (MLRA 9:11)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR, Moskva. (Abutilon)

Μ.

USSR/Cultivated Plants - Ornamental.

: Ref Zhur - Biol., No 4, 1958, 15921 Abs Jour

: B.Yu. Murinson Author

Inst

: African Hemp (Sparmannia africana) Title

(Sparmaniya afrikanskaya)

: Priroda, 1957, No 3, 117. Orig Pub

: A brif description of the African hemp (Sparmannia africana). It is reproduced by grafts, grows well Abstract

indoors and blossoms from January through April. Tips are given on the reproducing, culturing and the

best ways of keeping the plant.

Card 1/1

CIA-RDP86-00513R001135620020-1" APPROVED FOR RELEASE: 03/13/2001

#### CIA-RDP86-00513R001135620020-1 "APPROVED FOR RELEASE: 03/13/2001

USSR/Cultivated Plants - Or and tal.

14

Abs John : Ref Zhar Biol., No 18, 1958, 82599

Author

: Murinson, B.Yu.

List

Title

: O'ua..der

Orig Pub : Priroda, 1957 No 7, 163

Abstract

: A number of suggestions on growing, transplanting and care of oleander is room caltivation. A method of propagation in room cultivation with the aid of cuttings is described. Measures for peast control are indicated.

Cord 1/1 1471

ENT

- 184 ..

Crinus cultivation. Friroda 46 no.1:100-101 Ja '57. (NLRA 10:2)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR, Moskva.
(Crinus)

VERZILOV, V.F., doktor biologicheskikh nauk; MURINSON, B.Yu.

Using plastic films and growth promoting substances in begetative propagation. Priroda 46 no.2:89-91 F '57. (MLRA 10:3)

1. Glavnyy botanicheskiy sad Akademi nauk SSSE, Moskva 'for Murinson' (Growth promoting substances)

(Plant propagation)

MURINSON, B.Tu.

African sparmania. Priroda 46 no.3:117 Mr '57. (MIRA 10:3)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (Myskva)
(Flants, Decorative)

MURINSON, B., starshiy sadovod

Growing lemons on the window sill. IUn.nat.no.1:34-35 Ja '58.

(MIRA 10:12)

1. Glavnyy botanicheskiy sad AN SSSR.

(Lemon)

AUTHOR: Murinson, B.Yu. 

TITLE: Indoor Growing of Amaryllis (Kul'tura amarillisa v kommete

PERIODICAL: Priroda, 1958, Nr 2, p 111 (USSR)

ABSTRACT: The article deals with the indoor growing of the amaryllis.

methods of breeding, etc. There is 1 photo.

ASSOCIATION: Glavnyy botanicheskiy sad Akademii nauk SSSE, Moskva 'Main

Potanical Gardens of the MOSR Academy of Sciences, Moscow

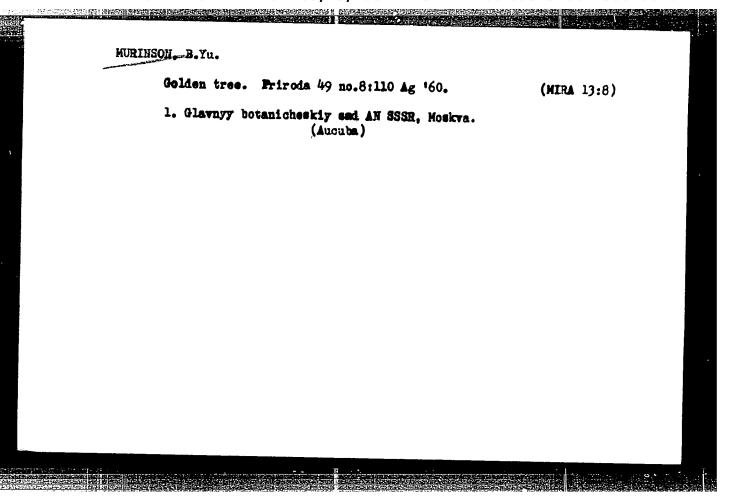
Card 1/1 1. Botany--USSR

<b>'</b>	MURINSON, B.Yu.	
	Experiment with direct planting of citrus plants in the ground of the hothouse. Biul.Glav.bot.sada no.32:110-111 58.	
	l. Glavnyy botanicheskiy sad AN SSSR. (Citrus fruits) (Greenhouse plants)	
]•••••		

MURINSON, B.Tu.

Eugenia. Priroda 49 no.7:119 J1 60. (MIRA 13:7)

1. Glavnyy botanicheskiy sad AN SSSR, Moskva. (Rugenia)



Scarbororough lily. Priroda 49 no.10:101 0 '60.	(WIRA 13:10)
1. Glavnyy botanicheskiy sad AH SSSR, Moskva. (Amaryllis)	(

MURINSON, B.Yu.

Fuchsia. Priroda 50 no. 3:115 Mr '61. (MIRA 14:2)

1. Glavnyy botanicheskiy sad AN SSSR, Moskva. (Fuchsia)

m —	URINSON, B.Yu.			(	
			Priroda 50 no.9:116 S '61.		
	1.	Glavnyy	botanicheskiy sad AN SSSR (Mos (Sarcococca)	okva).	
D.					

AND THE PROPERTY OF THE PROPER

MURINSON, B.Yu.

Fatsia. Priroda 51 [i.e. 52] no.5:118 '63. (MIRA 16:6)

1. Glavnyy botanicheskiy sad AN SSSR, Moskva.
(House plants) (Fatsia)

S/048/62/026/011/021/021 B125/B102

AUTHORS:

Yurasova, V. Ye., and Murinson, E. A.

TITLE:

Peculiarities of anisotropy in the cathode sputtering of

single crystals

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 11, 1962, 1445-1448

TEXT: The anisotropy of nexagonal crystals is studied on cylindrical zinc single crystals with the basal plane (0001). The most densely packed directions (1120) were perpendicular to the cylinder axis. The specimen (of about the same height and diameter) was attached to a glass tube and surrounded by a glass or mica collector. The glass tube contained a low pressure plasma (10<sup>-3</sup> mm Hg) of high density (10<sup>13</sup> cm<sup>-3</sup>). The test conditions are described by V. Ye. Yurasova and I. G. Sirotenko (Zh. eksperim. i teor. fiz., 41, 1359 (1961)). Zinc is best sputtered as follows: current density at the specimen 1 ma cm<sup>-2</sup>, negative voltage at the specimen 1.2 - 1.3 kv, krypton pressure 5·10<sup>-3</sup> mm Hg, time of sputtering 1 hr. The substance of hexagonal crystals, like that of cubic crystals, is mainly atomized in the direction of the densest packing.

Peculiarities of anisotropy ...

\$/048/62/026/011/021/021 B125/B102

Cathode sputtering of zinc single crystals onto a cylindrical glass collector supplied sufficiently distinct spot patterns. The intensity of these spots decreases from the center toward the spot margin according -p<sub>o</sub> sin<sup>2</sup>α to  $I/I_o(\alpha) = e$ •cos $\alpha$ , where  $p_0 = 9.5$  for Zn, and  $p_0 = 3.3$  for Cu in Kr. In the evaporation of a monocrystalline copper sphere (d = 4 mm)and at ratios  $\mu$  = d/l between 0.1 and 0.33, the photometric curves remain nearly constant, and resemble the curves for the plane specimen. d is the diameter of the sphere, and l is the distance between collector and specimen. The angular size of the spot is  $\tan(\delta/2) = \tan(\delta_0/2) + \mu/2$ for a plane specimen, where  $\delta_0$  is the angular size of the atomized spot when the collector is infinitely distant. The linear size  $D_0 \approx 2e \tan(\delta_0/2) + d_0$  of the spot decreases with decreasing distance to the collector, but always remains greater than the diameter of the plane specimen. The linear size of the sputtered spot remains smaller than the specimen diameter in the case of spherical specimens and spherical collectors when the screen is sufficiently near ( $\mu$  = 0.5). This is due to Card 2/3

\$/048/62/026/011/021/021 B125/B102

Peculiarities of anisotropy ...

the dependence of the single crystal sputtering intensity in the densely packed direction on its angle of inclination  $\psi$  toward the direction perpendicular to the surface. The sputtering intensity reaches its maximum at  $\varphi = 0$ , and decreases by about 35% to  $\varphi = 30^{\circ}$ . There are 4 figures.

ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gos. universiteta im. M. V. Lomonosova (Physics Division of the Moscow State University imeni M. V. Lomonosov)

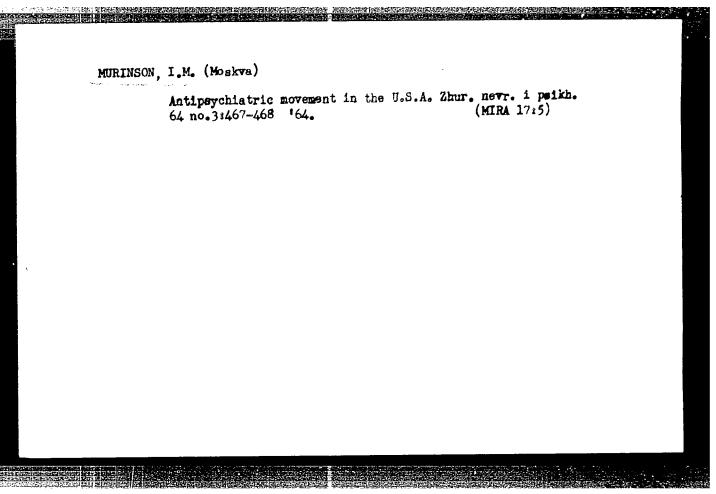
Card 3/3

MURINSON, I.M.

Results of organizing a psychoneurological clinic at a large hospital. Zhur.nevr.i psikh. 59 no.10:1272-1274 '59. (MIRA 13:3)

1. Glukhovskaya ob'yedinennaya bol'nitsa (glavnyy vrach N.P. Baglay)
Noginskogo gorsdravotdela.

(HOSPITALS PSYCHIATRIC)



ARUKSAAR, H.; LIIDEMAA, H.; MARTIN, I.; MÜRK, H.; NEI, I.;
PÕIKLIK, K., REHEMAA, V., red.

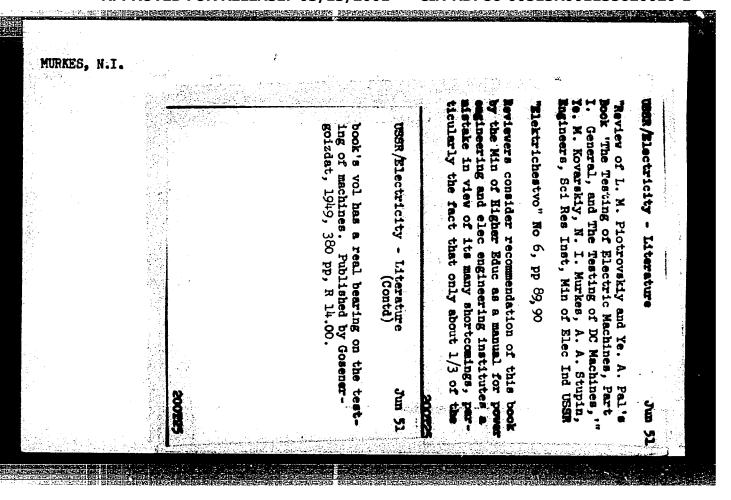
[General meteorology and agrometeorology] Üld- ja
agrometeorologia. Tallinn, Eesti Raamat, 1964. 765 p.
[In Estonian]

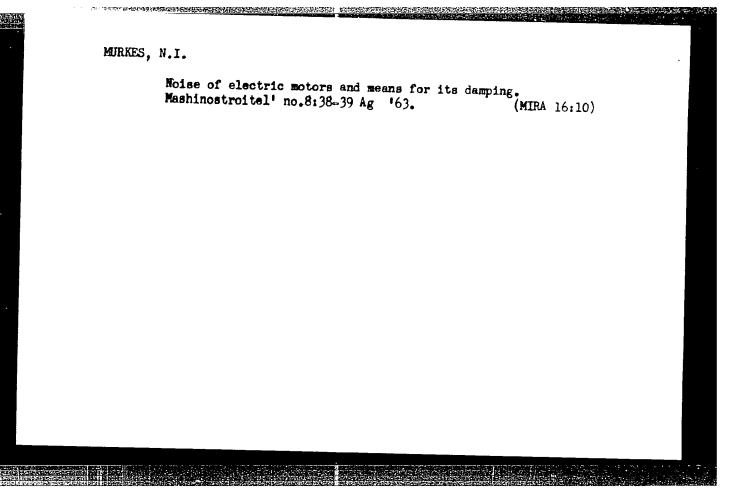
(NIRA 18:7)

HURKELINSKAYA, R.Yu.

Treating teenisrhynchiasis with quinacrine in a day hospital. Med. paras. i paras.bol.supplement to no.1:69 '57. (MIRA 11:1)

1. Iz parasitologichaskogo otdela Kirovabadskoy gorodskoy sanitarno-epidemiologichaskoy stantaii (QUINACRINE) (TAPEWORMS)





ACCESSION NR: AP4013297

\$/0135/64/000/002/0041/0041

AUTHOR: Dorofeyev, V. M. (Professor); Murkin, L. P. (Engineer); Shadov, V. P. (Engineer); Sivirkin, V. F. (Engineer); Marty\*nov, V. I. (Engineer)

TITLE: Gas-are welding torch with vortex stabilization of the arc

SOURCE: Svarochnoye prolzvodstvo, no. 2, 1964, 41

TOPIC TAGS: welding, welding torch, gas-arc welding torch, arc stabilization, vortex arc stabilization

ABSTRACT: The article describes the GEG-IA gas-arc welding torch with vortex arc stabilization, developed and produced at the Kuyby\*shevskiy aviatsionny\*y institut (Kuyby\*shev Aviation Institute). The anode is in the form of a copper nozzle with an output diameter of 3.5 mm and a sliding seating arrangement in a tin housing. The cathode used is a tungsten rod 7 mm in diameter set in a fixed position with respect to the nozzle. The electrode assembly is cooled by water fed into the tin electrode holder. The nozzle and electrode assemblies are insulated from each other by a textolite casing with screwed-in nipple for argon feed. The argon is fed into the chamber through two tangential apertures. The introduction into the torch of vortical argon feed eliminated nozzle wear. All three major torch assemblies (nozzle unit, housing electrode unit) are threaded Cord 1/2

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together and sealed with layers of conventional technical rubber. Electric current is supplied from a single PS-500 welding converter. A particular feature of the argon supply system is the presence in it of a jet 1.19 mm in diameter; during operation of the torch, a supercritical pressure gradient is set up on this jet, providing for constant argon consumption for the established pressure and variable torch operation modes. The technical specifications of this torch are listed. Orig. art. has: 2 figures.

ASSOCIATION: Kuyby\*shevskiy Aviatsionny\*y Institut (Kuyby\*shev Aviation Institute)

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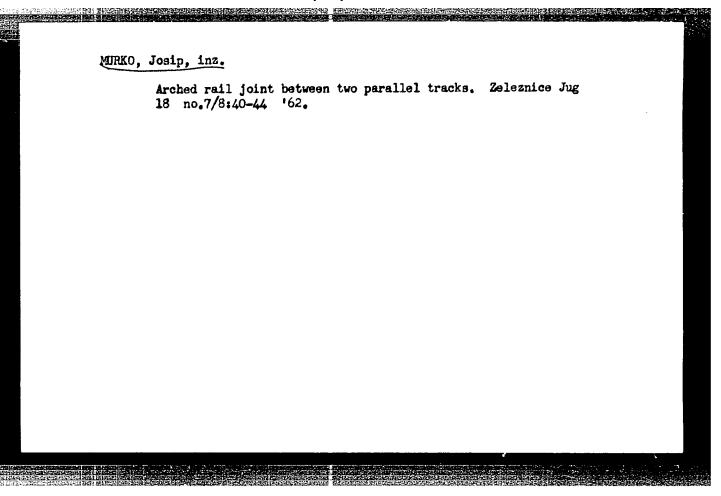
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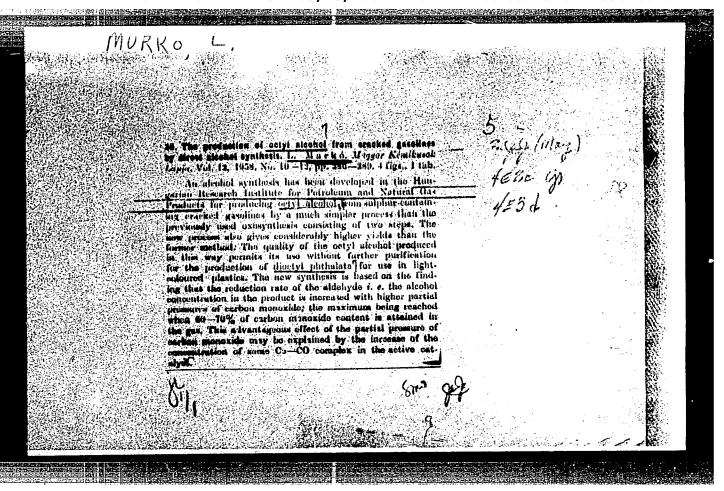
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